

DENBIGHSHIRE COUNTY COUNCIL.



ANNUAL REPORT

on the

Health of Denbighshire

for the

YEAR 1950

M. T. ISLWYN JONES,
M.D., D.P.H.,

County Medical Officer.

County Health Office,
16 Grosvenor Road,
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PREFACE.

To the Chairman and Members of the County Health Committee.

Mr. Chairman, Ladies and Gentlemen,

I have the honour to present my first Annual Report on the Health Services of the County for the year 1950.

The sudden death of Dr. H. Arwel Thomas in February, 1950, deprived the County of a most valued and respected officer. During the past decade the Health Department has had to cope with a constantly expanding sphere of activity, culminating in the preparatory work of formulating the County Council's proposals for the execution of its functions as a Health Authority under the National Health Service Act, 1946. It was regrettable that Dr. Arwel Thomas did not survive to reap the benefit of his unremitting endeavours to launch successfully all the National Health Service proposals, but his astute and farseeing planning are an inspiration which should always prove invaluable to future developments.

From February, 1950, until my arrival on 27th October, 1950, Dr. Kenrick Hughes was responsible for the Health Department, and I would express my gratitude to him, not only for the efficient manner in which the department functioned throughout that period, but particularly for his whole-hearted assistance on my arrival and his constant co-operation since. I am also glad to state that the entire staff has afforded me every support and loyalty.

As I cover only a short portion of the year under review, I have included reports from various members of the staff. I would express my appreciation to all those who have assisted me in the compilation of, or contributed to, this report. The advent of a new officer usually has repercussions in many directions, often demanding re-adjustments, and I would express my sincere gratitude to all the chief officers for their

kindness, friendly co-operation and manifest desire to facilitate the smooth launching of the newcomer. In particular I am indebted to the Clerk of the County Council for the valuable assistance which he is always so ready to extend.

Finally, I would thank you, Sir, and Members of the Health Committee, for your keen interest in the work of the Health Department and for the support which you have so generously accorded me.

Yours faithfully,

M. T. ISLWYN JONES,

County Medical Officer.

County Health Offices,
Wrexham.

September, 1951.

COUNTY HEALTH STAFF.

County Medical Officer:

Dr. H. Arwel Thomas, M.Sc., M.B., Ch.B., D.P.H. (Deceased February, 1950).

Dr. M. T. Islwyn Jones, M.D., D.P.H. (commenced duties
October, 1950).

County Obstetric Officer:

Mr. R. Owen Jones, F.R.C.S.

Deputy County Medical Officer:

Dr. T. Kenrick Hughes, M.B., Ch.B., D.P.H.

Assistant County Medical Officers:

Dr. S. Owen Edwards, M.B., Ch.B., D.P.H.

Dr. M. Jones Roberts, M.B., Ch.B., D.P.H.

Dr. W. McKendrick, M.B., B.S., D.P.H.

Dr. T. P. Edwards, M.D. (Lond.), M.B., B.S., D.P.H.

Senior Dental Officer:

Mr. D. Glen Thomson, L.D.S., R.C.S. (Eng.).

Assistant Dental Officers:

Mr. H. E. Fussell, L.D.S.

Mr. J. G. Roberts, L.D.S.

Mr. R. A. Rider.

Nursing Staff.

Superintendent Nursing Officer:

Miss W. M. Chune.

Deputy Nursing Officer:

Miss Eirlys Jones.

Health Visitors:

Miss K. Jones.
 Miss E. A. Bodsworth.
 Miss C. J. Thomas.
 Miss M. D. Evans.
 Miss M. E. Jones.
 Miss E. M. Tyler (resigned 14/10/50).
 Mrs. I. E. Garner.
 Mrs. E. G. E. Rees.
 Miss S. C. Evans.
 Miss E. A. Beech.
 Miss E. Griffiths.
 Mrs. M. Williams, Colwyn Bay.
 Miss F. V. Ramsay.
 Mrs. E. H. Bradley (commenced 11/9/50).
 Miss A. C. M. Quinn (commenced 18/9/50).

School Nurses:

Mrs. L. Warne.
 Mrs. A. Martin.

District Nurses and Midwives:

Miss Anne Jones, Emergency Nurse.
 Miss A. W. Richards, Emergency Nurse.
 Mrs. E. M. Beattie, Holt (commenced 1/5/50).
 Mrs. A. B. Blackwell, Wrexham.
 Miss D. Brown, Brymbo (commenced 18/9/50).
 Mrs. N. Crump, Gwersyllt.
 Mrs. N. Cheney, Old Colwyn.
 Miss A. O. Davies, Denbigh.
 Miss A. Davies, Trefnant.
 Miss E. Davies, Llansannan.
 Mrs. M. I. Edwards, Cefn (resigned 28/2/50).
 Miss E. B. Edwards, Cerrig.
 Miss G. E. Edwards, Llanarmon-yn-Ial.
 Miss M. H. Edwards, Ruabon.

Mrs. M. B. Evans, Cefn (resigned 20/2/50).
 Miss N. Evans, Cefn.
 Miss D. P. Flint, Garth.
 Miss P. Hignett, Wrexham (commenced 3/4/50).
 Mrs. N. B. Holly, Llansilin.
 Mrs. D. G. Hughes, Glynceiriog.
 Miss A. E. Jones, Llysfaen.
 Mrs. M. C. Jones, Coedpoeth.
 Miss M. J. Jones, Nantglyn.
 Mrs. E. A. Forrester Jones, Rhos.
 Miss E. M. Jones, Wrexham.
 Miss E. Rees Jones, Cefn (commenced 12/4/50).
 Miss A. Llewelyn, Glan Conway.
 Miss G. Llewelyn, Llanrwst.
 Mrs. E. E. Lloyd, Brymbo.
 Mrs. M. E. Mansley, Wrexham.
 Miss J. Manson, Wrexham (resigned 2/4/50).
 Miss F. MacLellan, Llay.
 Miss M. A. Matthias, Gwersyllt.
 Miss H. C. Munro, Clawddnewydd (commenced 2/6/50).
 Mrs. E. Parry, Brynteg.
 Mrs. O. Parry, Llay.
 Miss H. W. Pearse, Broughton (resigned 8/10/50).
 Miss A. Penny, Pentrevoelas.
 Miss G. N. Pritchard, Old Colwyn.
 Miss Jones Roberts, Broughton (commenced 1/11/50).
 Miss E. Roberts, Llangollen.
 Miss K. Roberts, Dolwen.
 Miss F. Rothwell, Abergele.
 Miss A. Shaw, Colwyn Bay.
 Miss M. P. Smith, Ruthin.
 Mrs. M. Taylor, Rhostyllen.
 Mrs. E. M. Thomas, Wrexham.
 Miss S. M. Thomas, Abergele.
 Miss B. Tuite, Gresford.
 Miss M. M. Watson, Colwyn Bay.

Miss S. Williams, Bwlchgwyn.
 Mrs. G. M. M. Williams, Chirk.
 Mrs. M. Williams, Llangerniew.
 Miss M. Williams, Rhewl.
 Miss M. Williams, Rhos.
 Mrs. S. Clayton Williams, Rhos.
 Miss E. Williams, Wrexham (commenced 11/12/50).

Dental Attendants:

Miss I. M. A. Lee.
 Mrs. M. Jarvis.
 Miss E. Bellis.
 Miss J. H. Sanderson.

Administrative Staff.

Assistant Administrative Officer:

Mr. J. T. Pritchard.

Senior Clerk:

Mr. T. J. Davies.

Assistant Clerks:

Miss E. Hughes.
 Mr. J. E. Evans.
 Mr. Gwilym Davies.
 Miss D. G. Jones.
 Miss K. Rooney (resigned 31/5/50).
 Miss M. Whittaker.
 Mr. David Davies (in H.M. Forces).
 Miss B. Bailey.
 Miss G. Hughes.
 Miss A. Cudworth.
 Miss M. Parry.
 Miss B. Edwards (commenced 2/10/50).
 Mr. Brian Davies (commenced 2/10/50).
 Miss B. Richards (Borough of Wrexham).
 Mrs. R. Grey (Borough of Wrexham).
 Mrs. G. Storrs (Borough of Colwyn Bay).

COUNTY OF DENBIGH. TABLE I. Vital Statistics, 1950.

Districts.	Estimated Population	No. of Births.	Birth-rate.	No. of Infant Deaths.	Rate of Infant Mortality.	No. of Deaths.	Death Rate.
Western No. 1.							
Abergele	7575	134	17.6	5	37.3	121	15.9
Colwyn Bay	22530	272	12.0	7	25.7	362	16.0
Western No. 2.							
Denbigh B.	8202	147	17.9	8	54.4	110	13.4
Llanrwst	2738	58	21.1	1	17.2	52	18.9
Ruthin B.	3698	57	15.4	1	17.5	41	11.0
Aled R.	7195	109	15.1	2	18.3	81	11.2
Hiraethog R.	5108	74	14.4	6	81.0	70	13.7
Ruthin R.	9302	170	18.2	2	11.7	116	12.4
Eastern No. 1.							
Wrexham R.	62280	1052	16.8	53	50.3	813	13.0
Carriog R.	7490	140	18.6	9	54.2	109	14.5
Llangollen U.	3098	64	20.6	3	46.8	41	13.2
Eastern No. 2.							
Wrexham B.	30470	543	17.8	24	44.1	337	11.0
TOTAL COUNTY.	169686	2820	16.6	121	42.9	2253	13.2

STATISTICS.

Live Births:—	Males	Females	Total
Legitimate	1390	1293	2683
Illegitimate	62	75	137
Birth-rate per 1000 of the estimated population		16.6	
Still-births	44	40	84
Rate per 1000 (live and still- births)		28.9	
Deaths	1138	1115	2253
Rate per 1000 of the estimated resident population		13.2	
		Rate per 1000 total live and still-births	
Deaths from Pregnancy; Childbirth; Abortion	4		1.4
Death rate of infants under one year:—			
All infants per 1000 live-births	121		42.9
Legitimate infants per 1000 legitimate births	111		41.3
Illegitimate infants per 1000 illegitimate births	10		72.9

RATES FOR ENGLAND AND WALES.

The Registrar-General furnishes the following rates for England and Wales:—

Birth-rate	15.8
Death-rate	11.6
Infant Mortality	29.8

Births and Birth-rates.

2,820 births were registered during the year, as compared with 2,869 in 1949. This gives a birth-rate of 16.6 per 1000 population as compared with 17.0 in the previous year. The birth-rate for England and Wales was 16.7.

The following table gives the number of births, deaths and infant deaths for each of the past 10 years:—

TABLE II.

Year	Estimated Population	No of Births	Birth-rate per 1000	No. of Deaths	Death-rate per 1000	No. of deaths under 1 year of age	Infantile death- rate per 1000 births
1941 ...	181510 ...	2617 ...	14.4 ...	2375 ...	13.0 ...	180 ...	68.7
1942 ...	175850 ...	2769 ...	15.6 ...	2015 ..	11.4 ...	154 ...	55.6
1943 ...	169250 ...	2939 ...	17.3 ...	2167 ...	12.8 ...	143 ...	48.6
1944 ...	164630 ...	2890 ...	17.5 ...	2033 ...	12.3 ...	128 ...	44.2
1945 ...	162390 ...	2636 ...	16.2 ...	2168 ...	13.4 ...	160 ...	60.0
1946 ...	165020 ...	2952 ...	17.8 ...	2177 ...	13.1 ...	130 ...	44.0
1947 ...	166430 ...	3340 ...	20.0 ...	2227 ...	13.3 ...	145 ...	43.4
1948 ...	167493 ...	3029 ...	18.0 ...	2024 ...	12.0 ...	116 ...	38.2
1949 ...	168452 ...	2869 ...	17.0 ...	2195 ...	13.0 ...	116 ...	40.4
1950 ...	169686 ...	2820 ...	16.6 ...	2253 ...	13.2 ...	121 ...	42.9

The following Sanitary Districts show a Birth-rate **above** that of the County:—

Wrexham Rural	16.8
Abergele Urban	17.6
Wrexham Borough	17.8
Denbigh Borough	17.9
Ruthin Rural	18.2
Ceiriog Rural	18.6
Llangollen Urban	20.6
Llanrwst Urban	21.1

The following Sanitary Districts show a Birth-rate **below** that of the County:—

Colwyn Bay Borough	12.0
Hiraethog Rural	14.4
Aled Rural	15.1
Ruthin Borough	15.4

Deaths and Death Rates.

There were 2,253 deaths registered in the County during the year as compared with 2,195 deaths the previous year. This gives a death rate of 13.2 per 1000 population in 1950 as against 13.0 in 1949.

Chief Causes of Death.

The principal causes of death are shown in the following table:—

TABLE III.

Cause of Death.	1949				1950			
	No. of deaths.		Per cent. of total deaths.		No. of deaths.		Per cent. of total deaths.	
Heart Disease	667	...	30.3	...	723	...	32.0	
Cancer	347	...	15.8	...	328	...	14.5	
Vascular lesions of nervous system	291	...	13.2	...	323	...	14.3	
Pneumonia	75	...	3.4	...	63	...	2.7	
Tuberculosis (all forms)	73	...	3.3	...	59	...	2.6	
Bronchitis	97	...	4.4	...	119	...	5.2	
Nephritis	53	...	2.4	...	43	...	1.9	
Other circulatory diseases	77	...	3.5	...	76	...	3.3	
Other defined and ill-defined diseases	—	...	—	...	248	...	11.0	

The following Sanitary Districts show a Death rate **above** that of the County, viz.:—

Llanrwst Urban	18.9
Colwyn Bay Borough	16.0
Abergele Urban	15.9
Ceiriog Rural	14.5
Hiraethog Rural	13.7
Denbigh Borough	13.4

The following Sanitary Districts show a Death rate **below** that of the County, viz.:—

Ruthin Borough	11.0
Wrexham Borough	11.0
Aled Rural	11.2
Ruthin Rural	12.4
Wrexham Rural	13.0

While in Llangollen U.D. the rate was the same as that of the County, viz.:—13.2.

Heart Disease.

Heart Disease continues to be the principal cause of death. 723 were registered in 1950 as compared with 667 in 1949. This shows a percentage of 31.8 of the total deaths from all causes and is equivalent to a death rate of 4.2 per thousand of the estimated population.

Of this figure of 723 total deaths due to heart disease, 575 or 79.5 per cent. occurred amongst persons of 65 years or over.

The following table analyses the deaths from heart disease at various age periods. Figures for the previous four years are given for the sake of comparison.

TABLE IV.

Year	All ages	0—5	5—15	15—45	45—65	65 and upwards
1946	589	—	—	18	94	477
1947	614	—	—	21	116	426
1948	569	—	—	8	95	466
1949	667	—	4	16	117	530
1950	723	—	1	28	119	575

Cancer.

Cancer accounted for 328 deaths during the year as compared with 347 in 1949.

The following table gives the number of deaths from Cancer, together with the death-rates in the Administrative County for the past 10 years:—

TABLE V.

Year.	No. of Deaths.	Death-rate per 1000 population.
1941	326	1.7
1942	281	1.5
1943	318	1.8
1944	314	1.8
1945	345	2.2
1946	343	2.0
1947	344	2.0
1948	361	2.1
1949	347	2.0
1950	328	1.9

The following table gives the death rates from all causes of Cancer according to Sanitary Districts:—

TABLE VI. (a) Cancer.

District.	Deaths.			Rate per 1000 population.
	Males.	Females.	Total.	
Western No. 1.				
Abergele	10	7	17	2.2
Colwyn Bay ...	18	38	56	2.4
Western No. 2.				
Denbigh	9	6	15	1.8
Llanrwst	1	8	9	3.2
Ruthin B.	1	3	4	1.0
Aled	7	6	13	1.8
Hiraethog	3	4	7	1.3
Ruthin R.	7	7	14	1.5
Eastern No. 1.				
Wrexham R. ...	65	53	118	1.8
Ceiriog	8	6	14	1.8
Llangollen	3	6	9	2.9
Eastern No. 2.				
Wrexham B. ...	25	27	52	1.7
	157	171	328	1.9

TABLE VI. (b) Cancer—Age and Sex Distribution.

Age Groups.	Males.	Females.	Total.
Under 1 year	—	—	—
1- 5 years	2	—	2
5-15 years	2	1	3
15-25 years	—	1	1
25-45 years	6	9	15
45-65 years	52	61	113
65 years and upwards	95	99	194
	157	171	328

MATERNAL MORTALITY.

	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950
County Maternal Mortality Rate	3.5	4.8	3.2	2.3	1.0	2.5	2.6	1.4	0.9	1.3	1.4
Pregnancy; Abortion; Childbirth	9	13	9	5	3	7	8	5	3	4	4

4 maternal deaths occurred in the County during the year, which was also the number for the preceding year. This gives a maternal mortality rate of 1.4 per thousand (live and still-births).

Each maternal death is investigated by the County Obstetric Officer, Superintendent Nursing Officer and Health Visitors: confidential reports on the circumstances of each death being forwarded to the Ministry of Health.

INFANT MORTALITY.

The infant mortality rate for 1950 for England and Wales was 29.8, a decrease on the previous year, but, unfortunately, not only was Denbighshire (42.9) appreciably higher than the country as a whole, but the infant mortality rate is increasing (40.4 in 1949). The infant mortality rate is considered a most sensitive index to the social conditions of the district. With full employment the economic circumstances of most families are practically assured of a reasonable standard, but many areas have exceedingly low standards of housing. This does not, by any means, entirely account for the high infant mortality rate and other reasons must be sought.

One such reason which, in my opinion, may be a contributory factor in the increasing mortality rate, is that investigations made have demonstrated a definite correlation between the infant mortality rate and the number of Health Visitors employed in the area. This aspect of the problem will be scrutinised during the coming year.

TABLE VII. Causes of Infant Deaths, 1950.

Disease.	Males	Females
Measles	1	1
Meningococcal Infection	—	1
Other forms of T.B.	—	1
Bronchitis	4	1
Pneumonia	8	7
Gastritis, Enteritis and Diarrhoea	7	1
Influenza	1	—
Whooping Cough	1	1
Cong. Mal. Birth. Inj. Inf. Dis.	6	7
All other accidents	4	2
Syphylitic Disease	2	—
Other defined and ill-defined diseases	29	36
	—	—
Totals	63	58
	—	—

COUNTY OF DENBIGH.
TABLE VIII. Causes of Death, 1950.

Causes.	Abergele Urban	Aled R.D.	Ceiriog R.D.	Colwyn Bay Boro	Denbigh Boro'	Hiraethog R.D.	Llangollen U.D.	Llanrwst U.D.	Ruthin Boro'	Ruthin Rural	Wrexham Boro'	Wrexham Rural	Totals
Tuberculosis respira- tory	5	1	..	2	2	2	2	1	1	3	10	22	51
Tuberculosis Other ..	..	..	1	1	1	..	..	..	..	..	2	3	8
Syphilitic disease ....	..	..	..	..	..	..	..	2	..	..	1	1	5
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping Cough ....	..	..	..	..	..	..	..	..	..	..	1	1	2
Meningococcal infec- tions .....	..	..	..	1	..	..	..	..	..	..	..	..	1
Acute Poliomyelitis .	..	..	..	1	..	1	..	..	..	..	2	1	5
Measles .....	..	..	..	..	..	..	..	..	..	..	..	2	2
Other Infective and Parasitic Diseases .	1	..	1	..	1	..	..	..	..	..	1	2	6
Malignant Neoplasm —Stomach	1	2	3	9	5	..	2	7	2	3	11	25	70
Malignant Neoplasm —Lung, Bronchus .	5	1	2	6	2	..	..	..	..	1	7	10	34
Malignant Neoplasm —Breast	3	..	1	9	2	..	..	1	..	..	6	7	29
Malignant Neoplasm —Uterus .....	..	..	1	..	..	..	..	..	1	..	2	2	6
Other Malignant and Lymphatic Neo- plasms	8	10	7	32	6	7	7	1	1	10	26	74	189
Leukaemia, Aleukae- mia .....	..	..	1	1	..	..	..	..	..	1	1	3	7
Diabetes	1	..	1	1	..	..	..	1	..	..	2	4	10
Vascular lesions of nervous system	19	16	18	61	9	10	6	3	6	21	52	102	323
Coronary disease, angina	18	7	15	40	9	10	3	4	8	15	35	60	224
Hypertension with Heart Disease	1	4	..	12	7	1	1	..	..	2	5	13	46
Other Heart Disease	15	14	21	81	31	13	11	9	7	19	63	169	453
Other Circulatory Disease	13	5	2	13	1	3	..	2	1	6	7	23	76
Influenza	1	1	2	3	1	1	1	..	1	1	1	6	19
Pneumonia	1	..	1	6	4	3	1	2	2	2	11	30	63
Bronchitis	4	3	7	12	6	4	1	3	3	2	14	60	119
Other diseases of Respiratory System	..	..	3	4	..	..	..	1	1	1	3	12	25
Ulcer of Stomach, Duodenum	3	..	1	4	1	..	1	1	1	1	5	7	25
Gastritis, Enteritis and Diarrhoea	1	1	..	3	1	..	..	1	..	1	6	4	18

TABLE VIII. Causes of Deaths, 1950—continued.

Causes.	Abergele Urban	Aled R.D.	Ceiriog R.D.	Colwyn Bay Boro'	Denbigh Boro'	Hiraethog R.D.	Llangollen U.D.	Llanrwst U.D.	Ruthin Boro'	Ruthin Rural	Wrexham Boro'	Wrexham Rural	Totals
Nephritis and Nephrosis	2	6	...	8	5	4	...	2	1	3	6	6	43
Hyperplasia of Prostate	1	2	...	4	1	...	1	...	...	5	4	11	
Pregnancy childbirth, abortion .....	...	...	...	...	...	1	...	...	...	...	1	2	4
Congenital malformations	1	1	2	2	1	...	1	...	...	...	2	7	17
Other defined and ill-defined diseases ...	9	6	12	29	9	8	3	6	5	16	40	105	248
Motor vehicle accidents	1	1	...	2	1	1	...	1	...	1	2	7	17
All other accidents ...	7	...	5	7	2	...	...	2	...	2	6	25	56
Suicide .....	...	...	2	5	2	1	...	2	...	...	2	6	20
Homicide and operations of war .....	...	...	...	2	...	...	...	...	...	...	...	1	3
All causes	121	81	109	362	110	70	41	52	41	116	337	813	2253

TABLE IX.

The percentages of deaths at different age periods are given below :—

Age Periods.	No. of Deaths			Percentage of Total Deaths
	M.	F.	T.	
0- 1	63	58	121	5.3
1- 5	12	10	22	.9
5-15	11	8	19	.8
15-25	10	14	24	1.0
25-45	64	52	116	5.1
45-65	257	204	461	20.4
65-75	344	266	610	27.0
75 and upwards	377	503	880	39.0

LABORATORY FACILITIES.

The following Laboratories undertake a variety of examinations for the County Council:—

The Pathological Laboratory, Maelor General Hospital.

Public Health Service Bacteriological Laboratory,
Conway.

The Pathological Laboratory, Chester Royal Infirmary.

University College of North Wales, Bangor.

Food and Drugs Act.

Analyses are also undertaken by Mr. F. A. Lowe, County Analyst, Chester.

INFECTIOUS DISEASES.

Scarlet Fever.

264 cases of Scarlet Fever occurred in the County of Denbigh during the year under review, compared with 249 in the preceding year. Of these, 92 were notified in the Wrexham Rural; 63 in the Wrexham Borough areas; 27 in the Colwyn Bay Borough; and 23 in the Borough of Ruthin.

Whooping Cough.

The Medical Research Council has been conducting a carefully controlled field trial into the efficiency of various types of Pertussis Vaccines. Many other Health Authorities have made Whooping Cough immunisation available in their Child Welfare Clinics. In my own experience, the results obtained were most satisfactory, and I have no hesitation in advocating that all clinics throughout the County should be able to proffer Whooping Cough immunisation as is already being done in the Colwyn Bay area.

Measles (excluding German Measles).

There were 1,979 notifications of Measles in the County (821 in the Wrexham Rural and 652 in the Wrexham Borough) as compared with 1,537 in the previous year.

Diphtheria.

2 cases only of Diphtheria were notified during the year, as compared with 7 cases in the preceding year.

No deaths from Diphtheria were registered during 1950.

Notifications and Deaths from Diphtheria.

	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950
Notifications	396	318	174	186	86	38	25	8	7	4
Deaths	13	13	5	5	1	—	1	—	—	—

Acute Poliomyelitis.

This disease has assumed epidemic proportions in recent years, not only causing considerable morbidity to the patients themselves, but alarm and concern to the community and those responsible for its health. While the number of fatalities is not many, the crippling sequelæ darken the future for many unfortunate patients, but not **all** cases develop paralysis. The disease in many instances stops suddenly without causing paralysis and these cases may well be a menace to the community in that they may escape diagnosis, move about unimpeded **while yet in an infective state.**

Preventive measures include accurate and early diagnosis, the avoidance of crowds, isolation of patients, strict observance of hygiene, especially in canteens, while severe exercise and immunisation may be aetiological factors associated with the onset or not of paralysis.

In view of the possibility that immunisation may be concerned with the onset of paralysis, Diphtheria immunisation clinics were suspended until the end of the year, which had a very adverse effect upon the number of children adequately protected against Diphtheria.

INFECTIOUS DISEASES.

TABLE X. (a).

The following tables furnishes particulars respecting the notifications received during 1950, and for comparative purposes the nine preceding years are shewn:—

Diseases.	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950
Diphtheria	396	318	174	186	86	38	25	8	7	4
Erysipelas	55	67	62	34	42	37	39	55	41	31
Scarlet Fever	246	227	275	294	276	157	149	273	249	264
Enteric Fever (including Typhoid and Paratyphoid)	16	8	7	6	7	3	2	4	1	1
Puerperal Pyrexia	22	19	15	5	15	8	3	7	1	1
Cerebro-spinal Fever	83	32	13	9	9	1	10	10	3	4
Acute Poliomyelitis .....	...	2	1	7	3	1	25	1	4	55
Opthalmia Neonatorum	5	2	1	4	3	4	6	...	...	...
Pulmonary Tuberculosis	210	176	209	221	212	214	195	173	212	169
Other Forms of Tuberculosis	64	82	68	59	37	30	41	40	49	41
Pneumonia	278	200	195	149	167	177	197	205	150	149
Encephalitis Lethargica	4	3	...	...	...	...	...	...	...	...
Acute Polio-encephalitis	2	1	...	...	...	...	...	...	...	5
Dysentery	22	60	36	60	49	46	2	9	4	45
Measles (excl. German Measles) .	1390	888	1403	154	2252	659	1317	1537	820	1979
Malaria .....	...	...	...	...	...	...	...	...	...	...
Whooping Cough	746	272	198	429	175	256	259	906	207	465
Chickenpox .....	...	6	...	8	...	...	7	10	1	15
Totals	3539	2363	2657	1625	3333	1631	2277	3238	1749	3228

TABLE X. (b).

The allocation of the several Infectious Diseases to the Sanitary Districts is shown in the following table:—

	Scarlet Fever.	Whooping Cough.	Diphtheria.	Measles.	Acute Pneumonia.	Meningococcal Infection.	Acute Poliomyelitis (Paralytic).	Acute Poliomyelitis (Non-paralytic).	Acute Encephalitis (Infective).	Acute Encephalitis (Post-Infectious).	Dysentery.	Ophthalmia Neonatorum.	Puerperal Pyrexia.	Smallpox.	Paratyphoid Fever.	Enteric or Typhoid Fever.	Food Poisoning.	Erysipelas.	Chickenpox.	Malaria.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	
Western No. 1.																							
Abergele	3	25	—	85	3	—	—	1	—	—	—	—	—	—	—	—	—	—	3	—	—	15	2
Colwyn Bay	27	14	—	8	10	—	—	2	—	—	6	—	—	—	—	—	—	—	5	—	—	26	3
Western No. 2.																							
Denbigh	3	—	—	47	3	—	—	—	—	1	12	—	—	—	—	—	—	—	—	15	—	12	3
Llanrwst	—	2	—	137	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—
Ruthin Borough	8	1	—	3	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aled	11	8	—	59	1	—	—	—	—	—	20	—	—	—	—	—	—	—	—	—	—	11	1
Hiraethog	15	—	—	58	1	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	3	—
Ruthin Rural	23	10	—	58	17	—	—	—	—	—	—	—	—	—	—	—	3	—	—	—	—	12	3
Eastern No. 1.																							
Wrexham R.D.C.	92	165	—	821	55	3	21	9	—	2	2	—	1	—	—	—	15	22	—	—	—	61	18
Ceiriog	3	2	—	47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—
Llangollen	16	—	—	4	—	—	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—
Eastern No. 2.																							
Wrexham Borough ...	63	238	4	652	49	1	1	16	—	2	5	—	—	—	—	—	1	1	—	—	—	24	10
Totals	264	465	4	1979	149	4	26	29	—	5	45	—	1	—	—	1	19	31	15	—	—	169	41

TABLE XI.

The following table gives the number of deaths from infectious diseases notified during the year, also for comparative purposes, the figures for the previous years:—

Disease.	1944	1945	1946	1947	1948	1949	1950
Measles	2	4	—	—	2	—	2
Whooping Cough	4	1	5	2	2	1	2
Diphtheria	5	1	—	1	—	—	—
Cerebro-spinal Fever ..	2	4	5	1	2	3	1
Acute Polio-Encephalitis	1	—	—	3	—	—	5
Acute Inf. Encephalitis	1	2	3	4	1	2	—
Tuberculosis, Pulmonary	73	72	67	69	63	62	51
Tuberculosis, Non-Pulmonary	13	14	12	15	8	11	8

TUBERCULOSIS.

51 deaths from Pulmonary Tuberculosis were registered during the year as compared with 62 in the previous year. 8 deaths from Non-Pulmonary causes were recorded, compared with 11 in 1949.

The death-rate per million of the population was 347.7.

The National Health Service Act, 1946, transferred responsibility for Hospital and Specialist Services to the Regional Hospital Board but **Care and After Care** of all persons suffering from Tuberculosis is an obligatory duty placed upon the Local Health Authority.

The following statistical information relates to the notification of Tuberculosis during the year 1950.

TABLE XII. TUBERCULOSIS.

Number of Cases on the County Tuberculosis Register for the years 1939-50.

Year	No. on Register			Deaths			Death Rate per Million of Population	
	Pulm.		Total	Pulm.	Non-Pulm.	Total	County of Denbigh	Wales and Mon.
1939	986	453	1439	80	14	94	587.3	759
1940	1089	494	1583	81	24	105	626.7	796
1941	1109	527	1636	92	20	112	617.0	794
1942	1189	578	1767	67	19	86	489.1	750
1943	1344	631	1975	63	18	81	478.6	751
1944	1478	672	2150	73	13	86	522.4	715
1945	1593	692	2285	72	14	86	529.6	718
1946	1568	645	2213	67	12	79	479.0	683
1947	1616	650	2266	69	15	84	505.0	693
1948	1591	595	2186	63	8	71	423.8	—
1949	1293	434	1727	62	11	73	433.2	—
1950	1371	450	1821	51	8	59	347.7	—

TABLE XIII.

Public Health (Tuberculosis) Regulations, 1924.

Active Cases on Registers according to Sanitary Areas.

District.	No. of cases of Tuberculosis on Register at the commencement of the year.		No. of cases notified for the first time under Regulations, 1912, during the year.		No. of cases removed from the Register during the year.		No. of cases remaining on the Register at the end of the year.	
	Pulmon.	Non-Pulmon.	Pulmon.	Non-Pulmon.	Pulmon.	Non-Pulmon.	Pulmon.	Non-Pulmon.
Western No. 1.								
Abergele	35	2	7	1	6	2	36	1
Females	29	1	8	1	6	1	31	1
Colwyn Bay	71	16	9	1	10	4	70	13
Females	64	25	17	2	10	6	71	21
Western No. 2.								
Denbigh	35	15	6	—	1	—	40	15
Females	44	16	6	3	—	—	50	19
Llanrwst	28	7	—	—	—	—	28	7
Females	14	8	1	—	—	—	15	8
Ruthin Borough	11	3	—	—	—	—	11	3
Females	11	6	—	—	—	—	11	6
Aled	14	4	7	1	7	—	14	5
Females	14	1	4	1	2	1	16	1
Hiraethog	26	16	1	—	—	—	27	16
Females	25	10	2	—	1	—	26	10
Ruthin Rural	39	8	6	1	1	—	44	9
Females	61	18	6	2	1	—	66	20

Public Health (Tuberculosis) Regulations, 1924—continued.

District.	No. of cases of Tuberculosis on Register at the commencement of the year.		No. of cases notified for the first time under Regulations, 1912, during the year.		No. of cases removed from the Register during the year.		No. of cases remaining on the Register at the end of the year.	
	Pulmon.	Non-Pulmon.	Pulmon.	Non-Pulmon.	Pulmon.	Non-Pulmon.	Pulmon.	Non-Pulmon.
Eastern No. 1.								
Wrexham								
R.D.C. Males	300	133	32	12	30	7	302	138
Females	235	91	29	6	7	1	257	96
Ceiriog	24	9	1	—	1	1	24	8
Females	13	3	1	—	—	1	14	2
Llangollen	15	2	1	—	1	—	15	2
Females	6	1	1	—	1	—	7	1
Eastern No. 2.								
Wrexham Bor. „ Males	106	19	12	5	4	—	114	24
Females	73	20	12	5	3	1	82	24
Totals	1293	434	169	41	91	25	1371	450

The source or sources from which information as to the above-mentioned cases was obtained are stated below:—

Source of Information.	No. of Cases.	
	Respira- tory.	Non- Respira- tory.
Death Returns:—		
From Local Registrars	3	—
Transferable Deaths from Registrar General	—	—
Posthumous Notifications	3	—
“Transfers” from other areas (other than Transferable Deaths)	—	—
Other sources, if any (specify)	—	—
Total	6	—

National Health Service Act.

CARE OF MOTHERS AND YOUNG CHILDREN, SECT. 22.

This section of the Act empowers the Local Health Authority to make arrangements for the care, including the dental care of expectant mothers and of children who have not attained the age of 5 years and are not attending school.

Prior to the Act, Denbighshire County Council had an excellent Maternity Service fostered and ably directed by Mr. R. Owen Jones, County Obstetric Officer, but the Trevalyn Maternity Hospital and the staff were transferred to the Regional Hospital Board on the "Appointed Day." Fortunately, it was possible to retain part of the services of both Mr. Owen Jones and Dr. C. F. Lucas, Resident Medical Officer. There exists, in consequence, a close liaison between the Local Health Authority on the one hand, and the Regional Hospital Board on the other. This becomes most evident when deciding on whether the baby should be delivered at home or in hospital. Though serving two Authorities, these officers ensure a continuity of supervision and treatment seldom found in other areas. I am grateful to Mr. Owen Jones for his brief review of the services conducted by him on behalf of the Local Health Authority, which I append below:—

"Births.

Live Births	2820
Still Births	84
	—
Total	2904
	—

"Clinics.

1. **Ante-Natal.**—1,825 new cases were examined and 5,875 re-examinations were carried out at the following Clinics:—

	New cases	Re-examinations
Wrexham	938	2927
Rhos	168	657
Cefn	200	746
Llangollen	118	350
Denbigh	127	252
Ruthin	40	116
Llanrwst	51	160
Cerrig	24	34
Abergele	45	140
Colwyn Bay	144	493

2. **"Post-Natal—572.** As compared with last year's report on the staffing of these Clinics, the only change was the take over of the Wrexham Borough Clinics, held by Dr. Barry Jones. These are now mostly examined by Dr. Lucas and myself at No. 16 Grosvenor Road. Dr. William McKendrick and Dr. Jones Roberts have carried on as before.

Institutional Births.

Of interest again this year are the number of cases dealt with in the various Hospitals:—

Trevalyn Manor	869
Llangollen	67
Croesnewydd	372
Ruthin	77
Colwyn Bay Maternity Home	356
Chirk	157
Denbigh Infirmary	248

Maternal Deaths.

From the Registrar General's returns there were four maternal deaths in the area.

One patient died after the birth of twins, at a Nursing Home. She suffered from toxæmia of pregnancy and post partum hæmorrhage.

A patient died at Trevalyn from shock following a long labour with twins and difficult instrumentations.

The third patient died over a month after a normal delivery at home. She had been up and about her domestic duties and had to be admitted suddenly to the War Memorial Hospital, Wrexham, for an immediate operation for femoral thrombosis. She only survived a few days after the operation.

A patient died at the Emergency Hospital 2½ months after her confinement at home. 'There was doubt as to whether this was a maternal death as such or not.'

Ante-Natal Clinics.

The number of Ante-Natal Clinics in the County remains the same as last year, viz., 11, and these are attended by the County Obstetrician, the Resident Medical Officer at the Trevalyn Maternity Hospital and the Assistant County Medical Officers.

Mr. R. Owen Jones, F.R.C.S., and Dr. C. F. Lucas, Trevalyn Maternity Hospital, remain in the joint service of the Local Health Authority and the Regional Hospital Board.

Post-Natal Clinics.

Post-Natal patients are usually examined at the Ante-Natal Clinics, and this arrangement is quite satisfactory.

At Wrexham, however, a separate Post-Natal Clinic is held due to the large number of patients.

There has been some decline in attendances at some of the above Ante-natal and Post-Natal Clinics, due partly to the increased interest taken by general practitioners in midwifery. In some areas, doctors have organised special clinics for those mothers who have booked them for their confinements. The need for thorough post-natal examination is not fully appreciated by the mothers and the tendency is not to return unless something abnormal demands attention.

Maternity Outfits.

Maternity outfits are provided free of charge for all domiciliary confinements. The number issued during the year was 476.

In this way it is possible to guarantee that essential sterile material is available at every domiciliary confinement.

Notification of Births.

It is a statutory duty to notify births within 36 hours. The information so obtained is transmitted to the Health Visitor for the area so that she can call at the home soon after the fourteenth day. If a mother is discharged from hospital prior to the fourteenth day the Maternity Institution sends detailed information to the Health Department so that a midwife can be instructed to attend the mother and child for the remaining few days of the first fourteen days. The continuity of care is of the utmost importance as these early days often prove exacting for the mother.

Care of Unmarried Mothers.

Unmarried mothers and/or their children in need of institutional accommodation are admitted to suitable Homes outside the County, there being no such Institution available within the County area.

During the year, however, two cases were dealt with by the County Council, one being admitted to the Llanelwy Home of the St. Asaph Diocesan Body and the other to the St. Bridgets Home, Lowestoft.

It is pleasing to report that the premises known as Bersham Hall, near Wrexham, have been acquired and will soon be available to receive this class of patient from the six North Wales Counties. The accommodation will provide for about 18 mothers and children.

Infant Welfare Centres.

A list of the Infant Welfare Centres established in the County, with the sessional attendances, will be found on page 32 of this report.

Total number of attendances:—

(1) Children under 1 year	20,876
---------------------------------	--------

(2) Children between 1 and 5 years	12,138
--	--------

Number of children attending Centres for the first time:—

Under 1 year	2,204
--------------------	-------

1 - 5 years	523
-------------------	-----

TABLE XV. Maternity and Child Welfare.

The following table furnishes information for 1950 with regard to the Maternity and Child Welfare Centres established in the County.

Address	Whether Sessions are held weekly, fortnightly or monthly.	Day and Time of Meeting	Average attendance per session (Children).	Number of Children who attended for the first time.	Present arrangements for Medical Supervision
Rossett, Men's Institute	Fortnightly	Monday a.m.	21	33	Assistant Med. Officer
Southsea, Church Institute	"	Monday a.m.	33	88	"
Coedpoeth, Penygelli Schools	"	Monday p.m.	42	104	"
Llay, County Clinic	"	Monday p.m.	51	77	"
Glan C'way, Church Institute	"	Monday p.m.	33	37	"
Llanddulas, C.M. Chapel	"	Monday p.m.	10	11	"
Cefn, County Clinic	Weekly	Monday p.m.	34	159	"
Brymbo, Council School	Fortnightly	Tuesday a.m.	27	44	"
Broughton, Church Hall	"	Tuesday p.m.	31	59	"
Ruthin, Baptist Chapel	"	Tuesday p.m.	55	96	"
Glynceiriog, Ceiriog Institute	"	Tuesday p.m.	14	52	"
Llanrwst, County Clinic	"	Tuesday a.m.	45	85	"
Llangollen, Welfare House	"	Wednesday p.m.	24	65	"
Rhosrobin, County Clinic	"	Wednesday a.m.	31	70	"
Rhostyllen, Council School	"	Wednesday a.m.	19	80	"
Denbigh, County Clinic	"	Wednesday p.m.	55	88	"
Rhos, Plas-yn-Rhos Cty. Clinic	Weekly	Wednesday p.m.	45	170	"
Abergele, Church House	Fortnightly	Thursday p.m.	43	86	"
Chirk, Drill Hall	"	Thursday p.m.	32	100	"
Llangern'w, Memorial Hall	Monthly	Thursday p.m.	13	12	"
C'druidion, Presbyterian Church ..	"	Friday a.m.	18	34	"
Gresford, Church House	Fortnightly	Wednesday a.m.	24	36	"
Colwyn Bay, Nantyglyn Road	Weekly	Tues., a.m.	45	194	"
Church Room, Mochdre	Fortnightly	Monday p.m.	47	48	"
Church House, Llysfaen	"	Monday p.m.	16	20	"
Gatefield	"	Monday p.m.	63	101	"
Garden Village	"	Monday p.m.	34	40	"
Spring Lodge	"	Thursday, p.m.	49	145	"
1 Grosvenor Road	Weekly	Mon., Wed. p.m.	57	355	"

Wrexham,

DENTAL CARE.

Expectant Mothers and Young Children.

Facilities for the dental treatment of these priority groups have continued under the County scheme, although the dental staff has been depleted. In some areas, however, it has not been possible to meet the demands on the service.

The following Report has been submitted to me by the Senior Dental Officer:—

“Dental Treatment of Expectant and Nursing Mothers and Young Children.

“Clinics have been held at Cefn, Chirk, Denbigh, Llangollen, Llanrwst, Rhos, Ruthin and Wrexham.

“Llanrwst Clinic has been decorated, and certain used items of equipment have been installed. When this equipment is in use it will improve working conditions, as it includes an Electric Pendant Lighting Set and a Fountain Spittoon.

“Owing to the shortage of Dental Officers it has not been possible to inspect every expectant mother following her first attendance at the Ante-Natal Clinic, neither has it been possible to offer dental treatment to the mothers in Western Area No. 1 (Colwyn Bay), but it is hoped that when the replacement of Mr. Craine and Mr. Ross Wallis is effected, this will be provided.

“There has been a decrease in the number of cases referred to the Dental Officers during the year 1950. The number of cases completed was 268 against 162 in the previous year. This is accounted for by those cases where extractions were completed in 1949, but did not receive their dentures until 1950.

“The number of sessions devoted to this service increased by 22.5, and there has been an all round increase in the work done. There were 375 more attendances at the Clinics and 251 more teeth were extracted, 27 more teeth were filled, and 14 more dentures were supplied than in the previous year.

"The number of "toddlers" or children not attending school, referred to the dental officers for treatment increased considerably, and it is hoped this work will continue to increase. This priority group is the most important of all dental cases, and the value of conservation of the deciduous teeth is incalculable. When the staffing difficulties are overcome, and it will be possible to undertake the filling of deciduous or baby teeth, it will be a big step forward to combating dental disease. At the moment it is only possible to extract septic or aching teeth.

"Dentures are supplied to all expectant and nursing mothers requiring same. The arrangement where these cases are made by a firm of Dental Mechanics in Liverpool still applies. The standard of finish is high, and the materials used are of the best quality.

"All cases requiring X-Rays are referred to the nearest Hospital. This service at Wrexham will be much improved when the X-Ray Department is equipped with a machine which is designed for dental work.

"The appended statistical returns will, I feel sure, be perused with interest.

Treatment of Children under 5 years of age.

No. of children referred for treatment	152
No. of children inspected	152
No. found to require treatment	137
No. made dentally fit	131
No. actually treated	135
Attendances for treatment	152
Temporary extractions	287
General anaesthetics given for extractions	132
Local anaesthetics given for extractions	—
X-Ray	2
Gum treatment	—
Advice	32

ANNUAL RETURN OF WORK.
EXPECTANT AND NURSING MOTHERS.

January to December 31st, 1950.

	Western Area 1	Western Area 2	Eastern Area 1	Eastern Area 2	Total
No. referred for treatment	—	34	180	42	256
No. accepting treatment	—	31	177	42	250
No. completed treatment ...	—	22	231	15	268
Attendances for treatment .	—	240	1564	190	1894
Sessions devoted to treat- ment	—	25.5	134.5	24.5	184.5
Broken appointments	—	99	238	17	354

Anaesthetics.

General anaesthetics	—	11	348	55	414
Local anaesthetics	—	27	23	3	53

Extractions.

Permanent extractions	—	134	2132	405	2671
Temporary extractions	—	—	—	—	—
Fillings	—	16	72	11	99
Dentures supplied	—	28	309	33	370
Adjustments	—	8	116	4	128
Repairs	—	4	18	—	22
Sundries	—	—	18	3	21
Advice	—	7	196	6	209
Scaling and gum treatment	—	6	28	2	36

TABLE XVI.
MATERNITY AND CHILD WELFARE.
DENTAL TREATMENT, 1950.
(a) Numbers provided with Dental Treatment.

	No. examined.	No. needing treatment	No. treated.	No. made dentally fit.
Expectant and Nursing Mothers	256	256	250	268
Children under 5 years of age	152	137	135	131

(b) Forms of Dental Treatment provided.

	Extrac- tions.	Local Anaes- thetics.	General Anaes- thetics.	Fillings.	Scalings and Gum Treat- ment.	Silver Nitrate Treat- ment.	Dress- ings.	Radio- graphs.	Complete dentures provided.	Partial dentures provided.
Expectant and Nursing Mothers	2671	53	414	99	36	—	—	15	170	200
Children under 5 years of age	287	—	132	—	—	—	—	2	—	—

GENERAL NURSING SERVICE.

Appended below is the report submitted by the Superintendent Nursing Officer on the whole of the Nursing Service in the County during the year:—

“Although there have been many changes in the staff the services have continued satisfactorily. Six District Nurse Midwives left the County during the year but the service was not in any way impaired because of this, as the vacancies were filled without undue delay. The Holt area, which had been without a permanent District Nurse Midwife for some considerable time because of lack of suitable accommodation, has now a permanent Nurse who resides in a cottage in the village. This is of considerable help to the service and grateful thanks are extended to the owner for allowing Nurse to have the tenancy of this cottage. It is hoped that in all areas where it is needed a house will eventually be available for the use of the District Nurse Midwife.

Efforts have been made to get all the nursing staff trained in the administration of gas/air but only 75 per cent. were trained by the end of the year. Owing to shortage of staff at different periods, due to sickness and resignations, it was not possible to have the remaining 25 per cent. trained. This will be done as soon as possible.

Fourteen District Midwives purchased new cars during the year, this was possible through the priority scheme of cars for domiciliary Midwives. Whilst it is very much in the interests of the service for a Midwife to have a good car, thus ensuring that she can get to her patients without delay, it does cause much difficulty in the administration of the service when Nurses with their own cars are sick or on holiday, because the County Council cars which are available for the relief Nurses are not in a reliable state due to hard and long use.

The State Registered Nurse who took her district training at the Queen's Nurses' Institute through a grant given by the County Council, was successful in obtaining the certificate and has now returned to the County. She was appointed to Wrexham where she is carrying out very good work. The State Registered Nurse, who was

given an allowance from the County Council in order to take the Health Visitors' Certificate, commenced training in September for a period of 8 months.

During the year a scheme was started whereby this County gives rural experience in district nursing to Nurses who are training for the certificate of the Queen's Institute of District Nursing. Twelve candidates have visited, at different times, from Liverpool, Birkenhead and Warrington, and each Matron-in-Charge of the training homes has complimented the County on the high standard of work carried out by the Queen's Nurses. In view of this scheme, which is good for the County, it is necessary that Queen's Nurses who leave the County are replaced by Queen's Nurses; as candidates can only be given their experience by a Nurse with the certificate of the Queen's Institute of District Nursing.

A considerable amount of essential up to date equipment has been given to each Nurse during the year and a scheme for the care of premature babies in their own homes has been started. Certain equipment necessary for the care of a premature baby in the home has been placed with Nurses in different parts of the County to serve all Nurses in that particular area.

On instructions from the Welsh Board of Health a Midwife who has a very ill patient and is unable to contact a general practitioner, can send for the Emergency Obstetrical Squad direct, which is domiciled at Trevalyn Hospital. This is of considerable importance and help to the service as it means the County Obstetrician or his deputy are available at all times for the district midwifery service.

The Domestic Help Service, which has expanded considerably during the year, is a great help to the District Nursing Service as many, particularly the aged, would be compelled to go to hospital to be nursed if no domestic help was available. The scheme is also helping more confinements to take place at home.

The Health Visitors, District Nurses and Midwives have co-operated well throughout the year and a goodly number have attended lectures given by notable people. Eight Midwives and two Health Visitors have attended Post Graduate Courses held in various parts of the

country and all have stated their appreciation at being privileged to attend. The knowledge gained at the lectures and courses has proved to be of great value to them in their work.

The Deputy Superintendent Nursing Officer and myself have also attended lectures and special courses from which we have derived great benefit, and I would herewith express thanks on behalf of Miss Jones and myself for being given the opportunity of attending. It is found at these courses that we not only benefit from the knowledge derived from the lectures and observation visits, but we hear through contact with colleagues what is being done in other areas, and in this way it is possible to keep this County up to date in nursing methods and equipment, thus maintaining a high standard of nursing at all times."

TABLE XVII.
MIDWIFERY SERVICE, SECTION 23.
No. of Maternity Cases attended by Midwives during the year.

	Domiciliary Cases.		Cases in Institutions.		Totals.	
	As Midwives.	As Maternity Nurses.	As Midwives.	As Maternity Nurses.	As Midwives.	As Maternity Nurses.
1. Midwives employed by the Authority	478	152	—	—	478	152
2. Midwives employed by Hospital Management Committee	—	—	1362	793	1362	793
3. Midwives in Private Practice	4	—	11	102	15	102
Totals	482	152	1373	895	1855	1047

For a variety of reasons the trend to-day is for many more confinements to occur in hospital. The renewed interest in maternity work aroused in general practice since 1948 has also tended to deprive the midwife of much of her domain and she frequently finds herself relegated to the role of maternity nurse. This unhappy trend now seems to have been stabilised and the District Nurse/Midwife finds herself still a vital member of the social services provided by the Health Authority.

Total births notified :—

(a) Live Births.	
Domiciliary	719
(b) Still-births.	
Domiciliary	17
Total	736
(a) Live Births:	
Institutional	2070
(b) Still-births.	
Institutional	69
Total	2139
Grand Total	2875
Percentage of births occurring in Institutions	74.7
Percentage of domiciliary confinements	25.3

MIDWIFERY SERVICE

(Section 23).

Gas and Air Analgesia.

The number of Midwives in the County trained in the administration of Gas and Air Analgesia is 35.

Provision of Motor Cars to District Nurses:—

District Nurse Midwives using their own cars	27
District Nurse Midwives using County Council cars	11
District Nurse Midwives without cars	15

TABLE XVIII.
SUPPLY OF MIDWIVES.

	Domiciliary Midwives.	In Institutions.	Total.		
Employed by Local Supervising Authority	50	...	—	...	50
Employed by Voluntary Associa- tions :—					
(1) Under arrangement made with Local Supervising Authority	—	...	—	...	—
(2) Other	—	...	56	...	56
In Private Practice	12	...	7	...	19
	—		—		—
	62		63		125
	—		—		—

MIDWIVES ACT, 1918—SECT. 14.

No. of patients for whom medical aid was sum- moned by a certified midwife	202
Total amount of medical claims	£398 8 6

SUPPLY OF DRIED MILK.

The total quantity of dried milk supplied at cost price during the year to expectant and nursing mothers and young children (otherwise than under the National Milk Scheme) was 13,962 packets.

OPHTHALMIA NEONATORUM.

No cases of Ophthalmia Neonatorum were notified during the year.

HEALTH VISITING, SECTION 24.

The National Health Service Act opened up new spheres of activity for the Health Visitor. Previously her duties were limited to mother and child but now the entire family comes within her purview. The Act places a statutory duty upon the County Council to make provision in their area for the visiting of persons in their homes by Visitors—for the purpose of giving advice as to the care of young children, persons suffering from illness and expectant or nursing mothers, and as to the measures necessary to prevent the spread of infection. To perform her duties satisfactorily the Health Visitor must have innate ability, sound training, adequate facilities and opportunities to keep abreast of the times.

Lectures and discussion groups were arranged during the year and a selected number attended Refresher Courses.

First visits to infants under 1 year of age	3287
Total visits to infants under 1 year of age	17383
First visits to children between 1-5 years	32
Total visits to children 1-5 years	20244
First visits to expectant mothers	333
Total visits to expectant mothers	750
First visits to other cases	358
Total visits to other cases	582

TABLE XIX.

NATIONAL HEALTH SERVICE ACT, SECTION 24.
Summary of Work of Health Visitors.

District.	No. of visits to children under 1 year.		No. of visits to children 1—5 years.	Expectant mothers.	
	First visits.	Total visits.		First visits.	Total visits.
Rhos and Penrycae	194	919	979	26	25
Rhostyllen, Ruabon, Marchwiel, Isycoed and Abenbury	157	240	341	—	—
Coedpoeth, Southsea, New Broughton	140	1024	1112	29	33
Brymbo, Broughton, Summerhill	200	788	1139	24	34
Llay, Gresford, Rhosrobin	209	1561	905	10	9
Llangollen and Cefn	136	726	1156	2	2
Abergele and part of Aled	143	1050	1505	61	75
Denbigh and part of Aled	420	1377	2868	—	—
Llanrwst Area, Hiraethog	130	1085	1828	32	42
Llansilin, Chirk and Glynceiriog	147	873	1302	2	3
Ruthin Borough, Ruthin Rural and Cerrig	510	1530	1555	5	6
Borough of Colwyn Bay	274	1176	1161	29	30
Borough of Wrexham	627	2718	4233	113	491
Totals	3287	15067	20084	333	750

HOME NURSING. SECTION 25.

Prior to the National Health Service Act, the various District Nursing Associations provided home nursing, but after the "Appointed Day" District Nurses were transferred to the County Council. The majority act in the dual capacity of District Nurse and Midwife, an arrangement which has much to commend itself.

In view of the amount of equipment, Gas and Air apparatus—which alone weighs 28 lbs., and distances covered, Nurses either purchase their own cars or have one provided by the County Council.

TABLE XX.

No. of District Nurses employed on 31st December, 1950.

Whole-time on Home Nursing. (a)	Part-time on Home Nursing. (b)	Equivalent whole-time service pro- vided by (a) (b)	Cases.			Visits.		
			General and Surgical.	Mid- wifery.	Total.	General and Surgical.	Mid- wifery.	Total.
4	55	Whole- time 36	5135	1496	6631	111481	21194	132675

TABLE XXI.
Summary of Work of District Nurses.

Area.	No. of Nurses.	Cases attended.			Visits.	
		General.	Midwifery.	Con- finements.	General.	Midwifery.
Western No. 1.						
Abergele	3}	708	112	28	17128	1534
Colwyn Bay	4}					
Western No. 2.						
Aled	4}					
Denbigh	1}					
Hiraethog	3}	1572	327	75	23642	4520
Llanrwst	1}					
Ruthin Borough	1}					
Ruthin Rural	4}					
Eastern No. 1.						
Ceiriog	3}					
Llangollen	1}	2459	687	305	48164	10114
Wrexham Rural	20}					
Eastern No. 2.						
Wrexham Borough	6	356	369	157	15862	5009

VACCINATION AND DIPHTHERIA IMMUNISATION.

SECTION 26.

Vaccination against Smallpox.

Since vaccination became no longer compulsory there has been a marked decline in the number of children vaccinated. Yet with quicker travel, the risk of Smallpox being introduced to this country has been increased. Many parents associate Vaccination with the complications which seemed to occur more frequently a generation ago. Improved methods in the manufacture of the lymph have eradicated many dangers, but careful aseptic technique is still of importance. The "multiple pressure" method has proved less liable to result in severe reactions.

Diphtheria Immunisation.

The number of children immunised in the County during the year 1950 was as follows:—

Under 5 years of age	1231
Between 5-15 years	246
	—
	1477
	—
" Repeat " doses	1313
	—

Since 1937 the number of children immunised in the County is 54,743.

The following table shows the percentage of children immunised in the several sanitary districts in the County:—

TABLE XXII.

DIPHTHERIA IMMUNISATIONS.

	Children 1—5 years.	Children 5—15 years.
Urban Districts.		
Abergele	76.3	94.7
Colwyn Bay	84.3	91.4
Denbigh	83.5	90.8
Llangollen	82.9	94.2
Llanrwst	90.9	97.5
Ruthin	85.4	97.7
Wrexham	54.1	63.2
Rural Districts.		
Aled	77.2	94.4
Ceiriog	74.4	93.6
Hiraethog	89.2	96.2
Ruthin	82.7	98.5
Wrexham	70.1	89.9

A brief survey of Table X (a), page 19, shows succinctly and cogently the history of Diphtheria Immunisation. From the time when immunisation was officially sponsored and became universally available, the number of notifications of cases of Diphtheria has been reduced from 396 in 1941 to a negligible 4 in 1950. There can be no doubt but that this remarkable achievement of preventive medicine has saved many lives, much ill-health and a vast amount of money. Further efforts should ensure the entire eradication of Diphtheria from the County. Effective immunisation prevents this once dread disease, and parents who neglect to obtain this for their children are exposing them unnecessarily to a serious risk.

Constant advice is given to the mothers by the Medical and Health Visiting Staffs at all the County Clinics urging the immunisation of their children, while effective and graphic posters on the subject are displayed.

AMBULANCE SERVICE (SECTION 27).

On 1st October, 1950, the Welsh Home Ambulance Committee undertook, on an agency basis, to provide the Ambulance Service for Denbighshire, with the exception of the Colwyn Bay and Abergele areas.

Apart from 3 whole-time drivers, the entire service is manned by volunteers—members of the St. John Ambulance Brigade. While, at one time, each ambulance could cope with the local demands, the constantly increasing calls on this service will add appreciably to the strain and it will be necessary to review carefully the situation at periodic intervals so that any re-arrangements or improvements can be instituted in good time. In due course the Ambulance Service will be integrated into one service, performing as a team and not as individual units. At present each station considers itself an independent unit but before long it is hoped to foster the team spirit and ensure a highly efficient integrated and co-ordinated service.

Sitting Case Cars.

Heavy demands have been made on sitting case cars. To operate this service use is made of local taxi services. In rural areas such arrangements are both economical and efficient. A strict control is essential otherwise this service is liable to abuse.

The Hospital Car Service has rendered invaluable service in certain areas and much hard work has been done by the Honorary Secretary .

TABLE XXIII. STATISTICS.

Name of Ambulance	No. of cases conveyed	Total mileage
Abergele	210	8844
Colwyn Bay	822	18654
Colwyn Bay Isolation Hospital .	79	1311
Cerrigydruidion	77	4842
Denbigh	255	6806
Llangerniew	109	6276
Llanrwst	86	4076
Ruthin	228	7940
Brymbo	1547	16449
Cefn	918	17970
Chirk	241	5239
Llay	1120	9406
Rhos	1347	13677
Wrexham	8436	67737
Wrexham Isolation Hospital ...	643	5505
Wrexham E.M.S. Hospital	973	5276
	<u>17091</u>	<u>200008</u>

SITTING-CASE CAR SERVICE.

The conveyance of sitting cases is still being undertaken by local car hirers and taxi proprietors, and for this work they are being paid at the following rates:—

Day-time (8 a.m. to 8 p.m.).

- 9d. per mile and 2/6d. per hour waiting time.
- 3/6d. minimum charge for local journeys.

Night-time (8 p.m. to 8 a.m.).

- 1/6d. per mile and 5/- per hour waiting time.
- 5/- minimum charge for local journeys.

TABLE XXIV.
SITTING CASE CAR SERVICE.

Month	No. of cases conveyed	Total mileage
January	844	16643
February	877	17893
March	954	20824
April	793	16920
May	782	17647
June	851	20823
July	875	18721
August	769	18098
September	776	17416
October	803	17150
November	789	16534
December	596	12647
Totals	9709	211316

VOLUNTARY CAR POOL SERVICE.

Drivers of the Voluntary Car Pool Service, which has been organised in certain parts of the County, are paid at the rate of 6d. a mile, together with a small subsistence if the journey necessitates them being away from home over 4 hours.

No. of cases conveyed 700

Total mileage 39763

NATIONAL HEALTH SERVICE ACT, SECTION 28.

PREVENTION OF ILLNESS, CARE AND AFTER-CARE.

This section of the Act empowers the Health Authority to provide for the care of mental patients, either not requiring hospitalisation or upon discharge from a hospital. The section is of paramount importance in that if utilised fully, it will open the portals to a wider preventive field.

The extent to which these powers are implemented is determined by the Local Health Authority and it is incumbent upon each Authority to survey and assess the needs within its boundaries. That there is a real need in Denbighshire is proved by the statistical evidence, but as yet no definite scheme has been evolved. Up to the present time the Psychiatric Social Worker from the North Wales Mental Hospital has undertaken much of the initial supervision of discharged patients. Dr. J. H. O. Roberts, Medical Superintendent, North Wales Mental Hospital, has interpreted his responsibilities in the sphere of Mental Health in a broad and realistic manner which has ensured a close co-operation between the Regional Hospital Board and the Local Health Authority.

According to the present arrangements Dr. J. H. O. Roberts, Medical Superintendent, has permitted the Psychiatric Social Workers on his staff to pay domiciliary visits to discharged patients. This work of rehabilitation and after-care should be continued by the staff of the Health Authority but no Psychiatric Social Worker has been appointed.

Lunacy and Mental Treatment Acts.

The responsibility for the initial care and removal to hospital of patients dealt with under the Lunacy and Mental Treatment Acts is placed on the "Duly Authorised Officers." In Denbighshire these officers hold a combined appointment which, from certain aspects, has some advantages.

Tuberculosis.

Prior to 1948 a very active After Care Committee functioned effectively. Since that date the National Assistance Board has undertaken much of the welfare work previously undertaken by the County Council but there can be no doubt that there is ample scope for both authorities.

The Chest Physician, who is jointly employed by the Regional Hospital Board and the Health Authority, has an important role in the onslaught on Tuberculosis. He is particularly well situated to co-ordinate the preventive and curative facilities which are at his disposal. Unfortunately, it has not yet been possible to appoint Tuberculosis Visitors and, until they are, the supervision and care of patients in their homes will be inadequate.

Other types of Illness.

Assistance is given in the nursing care of patients discharged from hospital. In particular, there is developing a close link with the Hospital Paediatric Units.

Provision of Nursing Equipment.

Most of the District Nurses store small articles frequently needed for home nursing. These are loaned to patients. This service is reinforced by the voluntary efforts of the Red Cross and St. John Ambulance Brigade, who have depots in various parts of the County.

NATIONAL ASSISTANCE ACT. BLIND WELFARE.

One of the misfortunes which beset the aged is gradual deterioration of sight. Constant attention and early treatment can do much to delay or inhibit these degenerative changes. The importance of this preventive work is often overshadowed by later events, and the loss of sight even in a bedridden elderly person is a tragedy. The staff of the Health Department have worked in close co-operation with the Home Teachers ensuring full co-ordination of medical and welfare facilities.

The National Assistance Board is responsible for providing financial assistance to Blind Persons. Again in this instance, there exists a close co-ordination between the two departments which has proved to the benefit of the patient.

Much of the voluntary work done for the Blind has been canalised through the North Wales Blind Society. This can be appreciated upon perusal of the following report:—

“The Society employed three full-time and one part-time Certificated Home Teachers in the County and in addition an Uncertificated Supply Home Teacher was appointed in December, 1950. These Home Teachers were responsible for the care and welfare of 407 Registered Blind Persons, and a number of Observation Cases. Their duties include regular and systematic visits, additional visits in urgent and special cases. Where necessary they gave lessons in Braille and Moon and Pastime Handicrafts.

The Society's Necessitous Grants Committee dealt with 38 applications submitted by the Home Teachers on behalf of the blind, the applications granted included the repairs and maintenance of Wireless Sets, Seed Potatoes for enthusiastic gardeners, Summer Outings, Kitchen Grate, Braille Watches, Talking Book, and 100th Birthday Gift. The cost to the Society amounted to £107. 7s. 0d., and in addition, White Sticks, Library Books, Equipment and Materials for Home Workers were granted by the Society, Motor Tours, Christmas Parties. These necessitated an extra expenditure of £75.

The two Social Centres, i.e. Wrexham and Colwyn Bay, continue to give good service. The Social Centre at Wrexham is under the supervision of the Guild of Helpers League, and the one at Colwyn Bay is supervised by Councillor Mrs. Florence Jones and Mrs. Francis Davies, the Home Teachers in the respective areas render every possible assistance. Light Handicrafts, i.e. Knitting, Seagrass Seating, etc., are taught. One Home Teacher has commenced evening classes in Wrexham.

The Llys Onnen Home for the Blind, Abergele, ably supervised by the Superintendent and Matron (Mr. and Mrs. E. J. Roberts) is classed as a Home and the 10 Permanent Blind Residents (4 of whom are from Denbighshire) are exceedingly happy. The Home was fully booked up for practically 8 months of the year, and the Holiday Residents, 40 from Denbighshire, renew their applications yearly for a holiday. The Llys Onnen Sub-Committee meets regularly every month, the needs and welfare of the blind are their first consideration.

The Motor Tours arranged for the Wrexham Social Centre and the residents of Llys Onnen are in addition to those mentioned previously.

Electric and Battery Wireless Sets are issued free through the generosity of the British "Wireless for the Blind" Fund. The Society continues to undertake the cost of repairs, also half cost of all batteries and accumulators.

Owing to the decrease in the number of schools contributing to the Christmas Gift Fund, it was found necessary to reduce the Christmas Gift to 8/- per blind person.

Bus Vouchers were issued to 167 Blind persons in the County. These are obtained at a nominal cost of 2/6d. each and are supplied by the Crosville Motor Services Ltd.

In Denbighshire there are 9 Home Workers and 28 Pastime Workers and 11 in Open Industry."

DOMESTIC HELP SERVICE, SECTION 29.

This service can be one of the most difficult to administer as it can so readily gravitate into being nothing more than a domestic agency, and to avoid this, careful personal supervision by a trained person is essential. In Denbighshire the Superintendent Nursing Officer has direct responsibility, and, assisted by an experienced Senior Clerk, the service has developed along controlled channels so that it performs the functions of the Domestic Help Service as envisaged in the Act.

Each application for Domestic Help is carefully scrutinised and it is decided, in the event of a Domestic Help being required, whether the Health Authority or the National Assistance Board should provide one. This close liaison between the two departments has ensured that all deserving cases have received the help they need.

While one of the primary responsibilities of the Domestic Help is to take responsibility for the housework, it is essential that she should be imbued with a desire to carry out some

form of social work. The importance of this aspect of her work is impressed upon each recruit and not without some beneficial results. This policy has benefited in particular the aged people. With the ever increasing number of old people in the community it is of vital importance that every encouragement and assistance be given to them to remain in their homes for as long as possible. Every agency available to help the elderly should be co-ordinated around the Home Nursing and Domestic Help Services. Not until all these have been given a fair trial should an old person be removed from the familiar surroundings which have been inextricably associated with pleasant memories of former years.

MENTAL HEALTH (SECTION 51).

The Health Committee is responsible for the duties of the County Council in connection with the Mental Health Service. In accordance with the request of the Minister of Health the following information is provided:—

Administration.

(a) There were no meetings of the Mental Health Sub-Committee during 1950.

(b) Besides the County Medical Officer of Health and his Deputy, the staff employed in the Mental Health Service of the County Council was:—

4 Assistant Medical Officers.

1 Chief Duly Authorised Officer.

5 Duly Authorised Officers.

(c) Child Guidance Clinic.

The North Wales Mental Hospital has a Child Guidance team which has a weekly session at Wrexham and Colwyn Bay Clinics .

General Practitioners and the Assistant County Medical Officers refer cases to the Child Guidance Clinic and later continue supervision when the Clinic has completed the case.

Mental Deficiency Acts, 1913-38.

Since the transfer from the Health Authority to the Regional Hospital Board of the Mental Deficiency Institutions, the number of applications for admission to institutions seems to have increased and the number of vacancies to have become extremely few. Much can be provided for defectives living in the community and the availability of such facilities as Home Teaching and Occupation Centres relieve the strain, appreciably, on the parents of the defectives.

Defectives are visited periodically and every available assistance is given.

TABLE XXV.

**Lunacy Act, 1890; Mental Deficiency Acts, 1913-1938;
Mental Treatment Act, 1930.**

STATISTICS FOR YEAR ENDED 31st DECEMBER, 1950.

Lunacy Act, 1890.

	M.	F.	T.
No. of patients certified under the above Act and removed to the North Wales Hospital for Nervous and Mental Disorders, Denbigh, during the year 1950	29	48	77
No. of patients discharged during the year	20	28	48
No. of patients who died during the year	11	9	20

Mental Deficiency Acts, 1913-1938.

No. of Mental Defectives in Institutions at 31st December, 1950	43	91	134
No. of Mental Defectives under Guardianship at 31st December, 1950	2	—	2
No. of Mental Defectives in "Places of Safety" at 31st December, 1950	1	—	1

	M.	F.	T
No. of Mental Defectives under Statutory Supervision at 31st December, 1950	49	33	82
No. of Mental Defectives awaiting removal to an Institution during the year 1950	12	9	21
No. of Mental Defectives (new cases) reported during the year	4	3	7
No. of Mental Defectives admitted to Institutions during the year	1	—	1
No. of Mental Defectives taken to "Places of Safety" during the year	1	—	1
No. of Mental Defectives placed under Statutory Supervision during the year	2	3	5
No. of Mental Defectives that ceased to be under care by reason of death or removal from the area during the year	3	1	4

Mental Treatment Act, 1930.

Voluntary Patients.

	M.	F.	T
No. of Voluntary Patients admitted to the North Wales Hospital for Nervous and Mental Disorders, Denbigh, during the year 1950	104	86	190
No. of Voluntary Patients who left the Hospital during the year	83	87	170
No. of Voluntary Patients who died during the year	6	1	7

Temporary Patients.

	M.	F.	T.
No. of Temporary Patients admitted to the North Wales Hospital for Nervous and Mental Disorders, Denbigh, during the year 1950	2	1	3
No. of Temporary Patients discharged during the year	2	—	2
No. of Temporary Patients who died during the year	—	1	1

REGISTRATION OF NURSING HOMES

(Sections 187 to 194 of the Public Health Act, 1936).

	Number of Homes.	Number of beds provided for:		
		Maternity.	Others.	Total.
Homes first registered during the year	1	—	5	5
Total Homes on the register at the end of the year	10	13	85	98

CIVIL DEFENCE.

The continued interest in this subject has resulted in many lengthy publications providing the most recent information and placing additional duties upon the Local Authority.

While the Health Department will be responsible for the prevention of the spread of diseases, and will therefore feature in practically every aspect of Civil Defence, the primary role is the provision of an Ambulance Service to collect and evacuate casualties.

The present Ambulance Service forms an excellent nucleus for a Civil Defence Ambulance Service, especially as all personnel are fully trained members of the St. John Ambulance Brigade.

ENVIRONMENTAL HYGIENE.

Sanitary Circumstances in the County.

It is the duty of the County Medical Officer to acquaint himself with the sanitary circumstances of the County, but with such a scattered area it will take a fairly long time before I am in a position to be able to make a report. One decision, which should have far reaching effects, was made in December, 1950, when a joint meeting of all the District Councils agreed to implement the scheme prepared under Section 111 of the 1933 Local Government Act.

The County has been divided into four districts, each being served by a whole-time Medical Officer of Health holding the joint appointment of Medical Officer of Health to the district and Assistant County Medical Officer. In this way a closer link should be forged between the district and the County Health Department.

Water Supply and Sewerage.

Much of the County Sanitary Officer's time has been devoted to investigating the various water supply and sewerage schemes submitted by the Rural District Councils. Not only did this procedure save the Council the fees of Consultants but also reduced delay to the period of consideration of the scheme to a minimum.

During the year the undermentioned water supply and sewerage schemes were considered by the County Council:-

Name of Local Authority and District.	Scheme of Water Supply and Sewerage.	Estimated Cost. £ s. d.
Ruthin R.D.C.		
Llanferres	Schemes of Sewerage	4824 0 0
Llandegla	"	2938 0 0
Derwen	"	7265 0 0
Waen Aberwheeler	"	7450 0 0
Tafarnygelyn	"	3182 0 0
Llanfair D.C.	"	4588 0 0
Llandyrnog	"	7327 0 0
Llanrhaiadr Y.C.	"	21000 0 0
Graigfechan	"	11190 0 0
Clawddnewydd	"	4943 0 0
Clocaenog	"	4192 0 0
		4975 0 0
Ceiriog R.D.C.		
Tregeiriog	"	3453 0 0
Pandy	"	3212 0 0
Glynceiriog	"	7057 0 0
Llansilin	"	3384 0 0
Pontfadog	"	7042 0 0
Ruthin R.D.C.		
Clocaenog and Derwen ..	Schemes of Water Supply	9886 0 0
Nantglyn	"	4744 0 0
Hiraethog R.D.C.		
Melinycoed	"	2933 7 8
Wrexham R.D.C.		
Erbistock	"	17834 7 6

FOOD.**Milk.**

The legislation of the past few years has re-organised and re-allocated responsibility for the production and distribution of milk. Production comes under the aegis of the Ministry of Agriculture, while distribution with the various processes involved remains partly the responsibility of the Health Authority.

On the 1st October, 1950, paragraph 7 (1) of Part 1 of the Second Schedule of the Milk (Special Designations) (Pasteurised and Sterilised Milk) Regulations, 1949, became operative. The County Sanitary Officer reports as follows:—

Milk (Special Designations) (Pasteurised and Sterilised Milk) Regulations, 1949.

“ I have to report good progress in the management, control and supervision of the eight Pasteurising Establishments operating in the County. During the year 187 samples of milk were taken and only one failed to pass the prescribed tests. The Management of the Processing Establishments have given the Regulations their wholehearted support, and have complied with every demand so as to ensure that their plant and premises conform to the requirements of the Regulations.

Pasteurisation can be regarded as the best means of coping with the unjustifiably large amount of milk borne disease. Its primary importance is to make milk a safe commodity of food. The processes of pasteurisation are extremely technical and require the most expert supervision. The margin of safety in every plant is very narrow, therefore great care must be exercised otherwise the public may be led to a false sense of security. Regular sampling cannot be overstressed but it is not considered satisfactory to define processing of milk in terms of laboratory results only. The main factors in pasteurisation are time and temperature. Both are likely to fail. Therefore the methods adopted at the processing establishments must be kept under constant supervision and examination.

Food and Drugs Act, 1938 (Section 25).

The implementation of Section 25 of the Act is the duty of every County Council. It provides for the prohibition of sale of tuberculosis milk or milk from cows suffering from tuberculosis and the other disease contained in the first Schedule of the Act. The safety of the raw milk demands that regular samples are taken for Biological Examination. The great shortage of guinea pigs is the reason why no samples are taken, the Public Health Laboratory which serves the County has been unable to take any samples during the year. I am informed that the position is improving but progress is slow when compared with other areas. My aim is to take a minimum of 1,500 samples every year.

TABLE XXVI.

Examination of Dairy Cattle.

Milk and Dairies.

(a) Clinical Examination of Dairy Cattle.

	No. of Herd Inspections	No. of Cattle examined	No. of Cattle slaughtered under the Tuberculosis Order, 1938.
Tuberculin Tested and Certified Herds	703	25017	—
Accredited and Standard Herds	725	17219	2
Non-designated Herds	2099	20997	5

(b) Tuberculin Testing of Herds licensed to produce Tuberculin Tested and Certified Milk.

No. of Cattle tested	28290
No. of Reactors	131

(c) Tuberculous Milk: Veterinary Investigations.

No. of investigations outstanding from previous year	—
No. of initial reports from Medical Officers of Health	2
No. of Herds involved	2
No. of cases of tuberculosis of the udder found	2
No. of investigations not yet completed	—

(d) **Tuberculosis (Attested Herds) Scheme.**

No. of Attested Herds	794
No. of Supervised Herds	141 "

Food and Drugs Act, 1938.

The County Council's duties in connection with sampling under this Act are undertaken by the Chief Inspector of Weights and Measures and his staff. The following table indicates the work done during 1950.

TABLE XXVII.

"I beg to report that during the year ended 31st December, 1950, 501 samples of food and drugs were submitted to the Public Analyst for analysis under the above Act, the particulars being as follows:—

Article.	No. taken.	Formal.	Informal.	Result of analysis.	
				Genuine.	Not genuine or sub- standard.
Milk :					
Retail	289	289	—	243	46
On delivery	5	5	—	1	4
In transit	14	14	—	1	13
Appeal-to-Cow	19	19	—	16	3
Unofficial	1	—	1	—	1
Saccharin Tablets	4	—	4	4	—
Aspirin Tablets	2	—	2	2	—
Sweets	9	—	9	9	—
Jam	15	—	15	15	—
Soft Drinks	3	—	3	3	—
Butter	17	—	17	17	—
Cooking Fat	2	—	2	2	—
Beer	22	—	22	22	—
Gelatine	2	—	2	2	—
Vinegar	2	—	2	2	—

Article.	No. taken.	Formal.	Informal.	Result of Analysis:	
				Genuine.	Not genuine or sub-standard.
Condensed Milk	5	—	5	5	—
Ice Cream	21	—	21	21	—
Sausages	17	1	16	14	3
Whiskey	4	—	4	4	—
Wine	4	2	2	4	—
Flour	2	—	2	2	—
Table Jelly	2	—	2	1	1
Custard Powder	2	—	2	2	—
Pepper	2	—	2	2	—
Coffee	2	—	2	2	—
Cakes	4	—	4	4	—
Gin	1	—	1	1	—
Cocoa	1	—	1	1	—
Tinned Vegetables	2	—	2	2	—
Tea	1	—	1	1	—
Salad Cream	2	—	2	2	—
Meat Paste	4	—	4	4	—
Cake Flour	3	—	3	3	—
Mustard	2	—	2	2	—
Tinned Fish	3	—	3	3	—
Rum	1	—	1	1	—
Pickles	1	—	1	1	—
Sugar	2	—	2	2	—
Plum Pudding	1	—	1	1	—
Mincemeat	1	—	1	1	—
Suet	1	—	1	1	—
Honey	1	—	1	1	—
Bread	1	—	1	1	—
Brandy	1	—	1	1	—
Cheese	1	—	1	1	—
Total	501	330	171	430	71

The average percentages of fat, and of solids-not-fat contained in the milk sampled during the year were:—

	Fat.	Solids-not-fat
Eastern Division	3.45%	8.63%
Western Division	3.58%	8.68%
Whole County	3.51%	8.65%
The legal presumptive standard is	3.00%	8.50%

As will be observed from the above Table, 46 retail samples of milk were certified by the Public Analyst as being "not genuine." In 38 of these samples the deficiency in fat, or in solids-not-fat was too slight to justify any further action apart from the tendering of advice. 4 samples were the subjects of cautions, in one instance the "follow up" sample was genuine, and the parties responsible for the remaining 3 were eliminated by "appeal-to-cow" samples. 17 samples of milk taken "in transit" or "on delivery" were found to be "not genuine" and in five of these cases the vendors were cautioned, and the producers responsible for the remaining 12 samples were prosecuted and convicted.

An informal sample of Table Jelly was found to be slightly deficient in sugar and soluble solids, and this commodity is being kept under observation.

An informal sample of Sausages was deficient in meat content, and a further formal sample obtained from the same source was also below the standard. The deficiency involved was, however, too small to justify drastic action, and the vendor concerned was cautioned.

Another informal sample of Sausages contained 160 parts per million of Sulphur Dioxide, a permitted preservative, but the prescribed notice was not exhibited on the premises at the time of sale, neither were they labelled to this effect. A subsequent visit to these premises disclosed the fact that such a notice was hanging in the shop, but that it was obscured from view by other matter. The vendor was cautioned.

All other samples were certified by the Public Analyst to be genuine and free from all prohibited preservatives and colouring matter.

During the year, in consequence of a letter which was received by the late Medical Officer of Health, Dr. H. Arwel Thomas, informing him of the detection of undesirable amounts of lead in Beer sampled in an area outside this County, special attention was paid to this commodity, and 22 samples were taken. I am glad to report that all these samples were found to be genuine and free from lead.

The samples of milk shown in the above Table were all submitted to the Public Analyst for analysis, and in addition, 91 samples of milk were tested at the Wrexham and Colwyn Bay Offices of this Department on behalf of farmers and dairymen, and also for preliminary information. The milk being supplied to the Children's Homes, County Welfare Establishments, Schools and certain Hospitals in the County was also periodically examined.

On relinquishing office, and submitting this, my final report, I deem it my duty to pay tribute to the Staff of the Department for their loyalty and support. The efficient administration of the Food and Drugs Act involves, of necessity, on occasion, very early or late duty in all kinds of weather, and for these services, executed without demur or complaint on any single occasion, I gladly record my gratitude and appreciation.

Appended hereto is a Table giving particulars of prosecutions instituted and completed during the year."

TABLE XXVIII.
PROSECUTIONS BY FOOD AND DRUGS INSPECTOR.
 PARTICULARS OF PROSECUTIONS INSTITUTED AND COMPLETED DURING THE YEAR

Article.	Nature of Offence	Result	Fine £ s. d.	Costs £ s. d.	Total £ s. d.
1. Milk.	Added Water.	Convicted.	2 10 0		
2. do.	do.	do.	2 10 0		
3. do.	do.	do.	2 10 0	15 8 0	25 8 0
4. do.	do.	do.	2 10 0		
5. do.	do.	do.	2 10 0		
6. do.	do.	do.	10 0 0		
7. do.	do.	do.	10 0 0		
8. do.	do.	do.	10 0 0	19 19 0	89 19 0
9. do.	do.	do.	10 0 0		
10. do.	do.	do.	10 0 0		
11. do.	do.	do.	10 0 0		
12. do.	Deficient in Fat.	do.	10 0 0	6 15 0	16 15 0
		Totals	£90 0 0	£42 2 0	£132 2 0

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	12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